

## **SD103AW - SD103CW**

## 400mW Schottky Barrier Switching Diode







#### **Features**

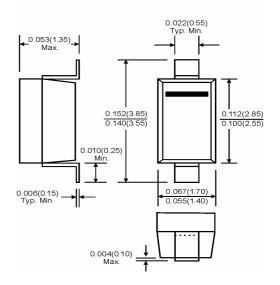
- ♦ Low forward voltage drop
- ♦ Guard ring construction for transient protection
- ♦ Negligible reverse recovery time
- Low reverse capacitance

## **Mechanical Data**

- ♦ Polarity: Cathode band
- Terminals: Solderable per MIIL-STD-202, Method 208
- Marking: Date Code and Type Code or Date Code only

Type Code: SD103AW S4 SD103BW S5 SD103CW S6

♦ Weight: 0.01 grams (approx.)



Dimensions in inches and (millimeters)

### **Maximum Ratings and Electrical Characteristics**

Rating at 25°Cambient temperature unless otherwise specified.

**Maximum Ratings** 

Type Number	Symbol	SD103AW	SD103BW	SD103CW	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	40	30	20	V
RMS Reverse Voltage	VR(RMS)	28	21	14	V
Forward Continuous Current (Note 1)	IFM	350			mΑ
Non-repetitive Peak Forward Surge Current $@t \le 1.0s$	IFSM	1.5			А
Power Dissipation (Note 1)	Pd		mW		
Thermal Resistance Junction to Ambient Air (Note 1)	$R_{\theta JA}$	300			°C /W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>		°C		

#### **Electrical Characteristics**

Type Number		Symbol	Min	Тур	Max	Units
SD103BW IR	R=100uA R=100uA R=100uA	V(BR)	40 30 20		-	V
SD103BW	VR=30V VR=20V VR=10V	lR	-	-	5.0	uA
Forward Voltage Drop		VF		-	0.37 0.60	V
Junction Capacitance VR=0, f=	1.0MHz	Cj	-	50	-	pF
Reverse Recovery Time IF=IR=200m Irr=0.1 x IR, RL		trr	-	10	-	nS

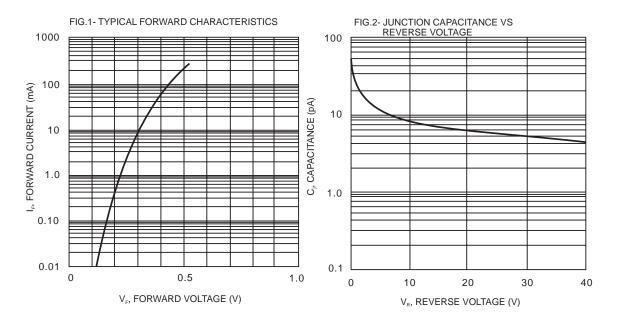
Notes: 1. Valid Provided that Terminals are Kept at Ambient Temperature.

2. Pulse Test: Pulse width = 300uS, Duty cycle ≤2%...

Version: A07



#### RATINGS AND CHARACTERISTIC CURVES (SD103AW - SD103CW)



Version: A07

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